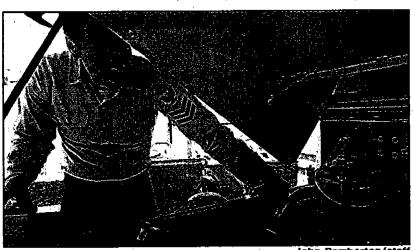


32228-000 13.01.00.0017

ine Cimes-Union, Jacksonville, Tuesday, February 20, 1996

Petty Officer Albert Chemay looks over thé TF Purifier replacement on a vehicle at Mayport Naval Station. The new filter. which cuts waste by lengthening oil life, is one of the ways that Mayport has become a leader in making a more environmentally friendly fleet.



John Pemberton/staff

Pollution solutions at Mayport

By Steve Patterson Times-Union staff writer

With designer bacteria and invisible streams of light, units at Mayport Naval Station are attacking a long-entrenched enemy: pollution.

A testing site for new anti-pollution technologies, Mayport was named runnerup last week in a Navywide contest for bases that are taking lead roles in environmental innovation.

The award highlights a niche the base has cultivated in recent years, developing environmental initiatives that are being copied at other bases.

The initiatives have ranged from experiments with bacteria that eat toxic waste to unglamorous projects like reorganizing the way sailors handle hazardous materi-

"If we eventually are to reduce pollu-

See POLLUTION, Pa

Pollution solutions off drawing board into real lif

From Page B-1

tion ... let's look at everything," said Capt. Scott Cantfil, Mayport's commander.

The commander of the Atlantic Fleet, Adm. William J. Flanagan, praised the base's work, saying it helped ensure "an environmentally friendly fleet and a better environment.

Mayport has formally been a cts since 1994, when it was designated as one of two bases. to develop environmental initiatives.

A number of projects are coming off drawing boards for practical applications that could affect the civilian world.

The bacteria experiment start-gineer at the base. ed in December in a field on the base where drums of pesticide had been stored and washed out. Toxic substances including DDT had seeped into the soil. Rather than dig up the polluted dirt and bury it in a landfill, the Navy bought specially cultivated bacteria that feed on chemicals in pesticides. The microbes were poured into for Navy environmental the dirt and left to feed and reproduce until they ate all the pesticides, after which they would starve and die.

A contractor who provided the bacteria says the job is done, but the Navy is waiting for soil

Other experiments include cleaning oily water by shining ultraviolet lights that bake out impurities. The method is being tested on water from ship bilges, but with a sizable civilian industry devoted to cleaning oily water, the method could have applications far removed from the Navy.

In a base maintenance center. crews have tested a device that cleans motor oil while it's still in the engine. With the new system, oil that was changed every three to six months can last two to three years without changing, said Petty Officer Altests to prove that, said Cheryl bert Chemay. Despite the sav- supplies in the past three ye

ing system - \$150 to \$300 unit - may limit the syste uses, said Mike Davenport, other environmental enginee

Other environmental proj have saved the base million dollars, Cantfil said.

For example, hazardous m rials like paint and solve that used to be purchased each ship and unit at the b are now managed by a cenwarehouse that delivers mat al on demand and collects l overs. By bringing back the l overs and passing them on other units, rather than lett them sit unused, the base sa about \$2.6 million on orders Mitchell, an environmental enings in oil, the cost of the clean-according to base estimates.

With designer bacteria and invisible streams of light, units at Mayport Naval Station are attacking a long-entrenched enemy: pollution.

A testing site for new anti-pollution technologies, Mayport was named runnerup last week in a Navywide contest for bases that are taking lead roles in environmental innovation.

environmental initiatives that are being d at other bases.

initiatives have ranged from experiments with bacteria that eat toxic waste to unglamorous projects like reorganizing the way sailors handle hazardous materi-

"If we eventually are to reduce pollu-

See POLLUTION, Page 8-3

Pollution solutions off drawing board into real life

From Page B-1

tion let's look at everything," said Capt. Scott Cantfil, Mayport's commander.

The commander of the Atlantic Fleet, Adm. William J. Flanagan, praised the base's work, saying it helped ensure "an environmentally friendly fleet and a better environment."

Mayport has formally been a projects since 1994, when it was designated as one of two bases to develop environmental initiatives.

A number of projects are coming off drawing boards for pracfect the civilian world.

The bacteria experiment start-gineer at the base. ed in December in a field on Other experiments include unit — may limit the system's the base where drums of pesti- cleaning oily water by shining uses, said Mike Davenport, ancide had been stored and ultraviolet lights that bake out other environmental engineer. including DDT had seeped into tested on water from ship have saved the base millions of the soil. Rather than dig up the bilges, but with a sizable civil- dollars, Cantfil said. polluted dirt and bury it in a ian industry devoted to cleancially cultivated bacteria that could have applications far re- that used to be purchased by feed on chemicals in pesticides. moved from the Navy. The microbes were poured into hub for Navy environmental the dirt and left to feed and re- crews have tested a device that warehouse that delivers materiproduce until they ate all the cleans motor oil while it's still al on demand and collects leftpesticides, after which they in the engine. With the new overs. By bringing back the leftwould starve and die.

washed out. Toxic substances impurities. The method is being

In a base maintenance center, system, oil that was changed overs and passing them on to A contractor who provided the every three to six months can other units, rather than letting bacteria says the job is done, last two to three years without them sit unused, the base saved but the Navy is waiting for soil changing, said Petty Officer Al- about \$2.6 million on orders for tical applications that could aftests to prove that, said Cheryl bert Chemay. Despite the sav- supplies in the past three years, Mitchell, an environmental en- ings in oil, the cost of the clean- according to base estimates.

ing system — \$150 to \$300 per

Other environmental projects

For example, hazardous matelandfill, the Navy bought spe- ing oily water, the method rials like paint and solvents each ship and unit at the base. are now managed by a central